

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P318402

Luminaire Tested: **GAN-SA8B-740-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318402
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-740-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45809 lumens
Efficiency: N/A
Efficacy: 137.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

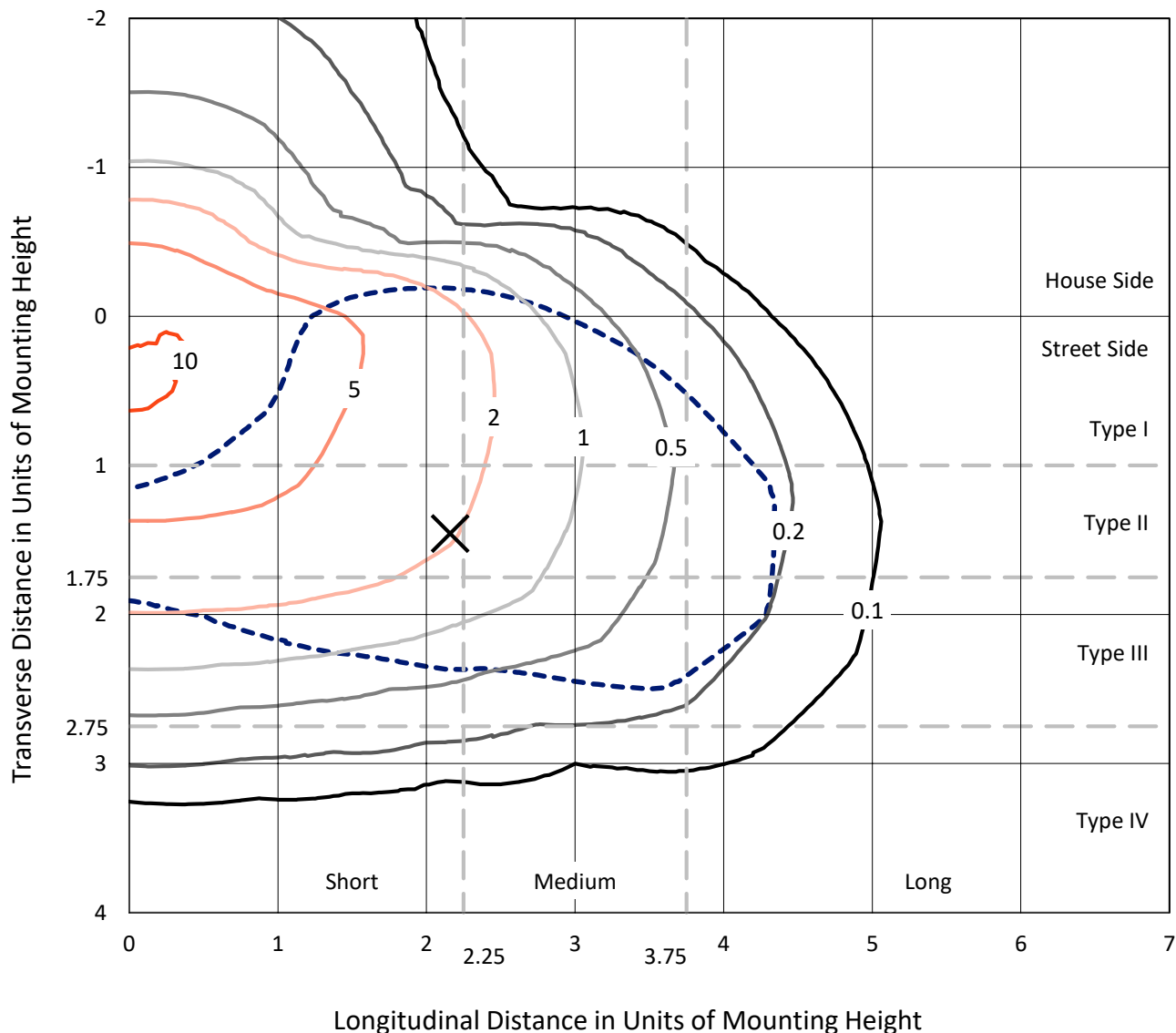
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

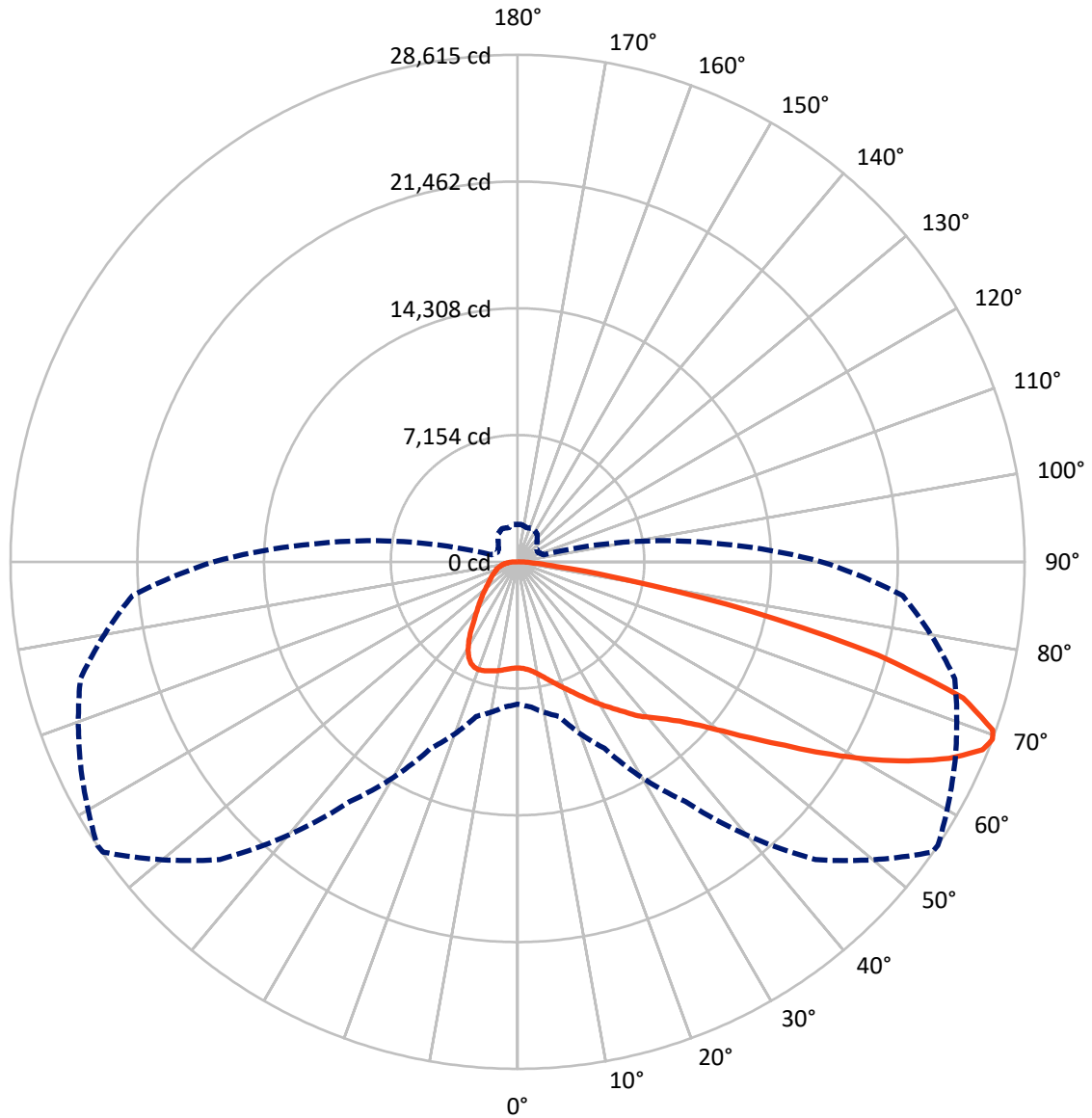
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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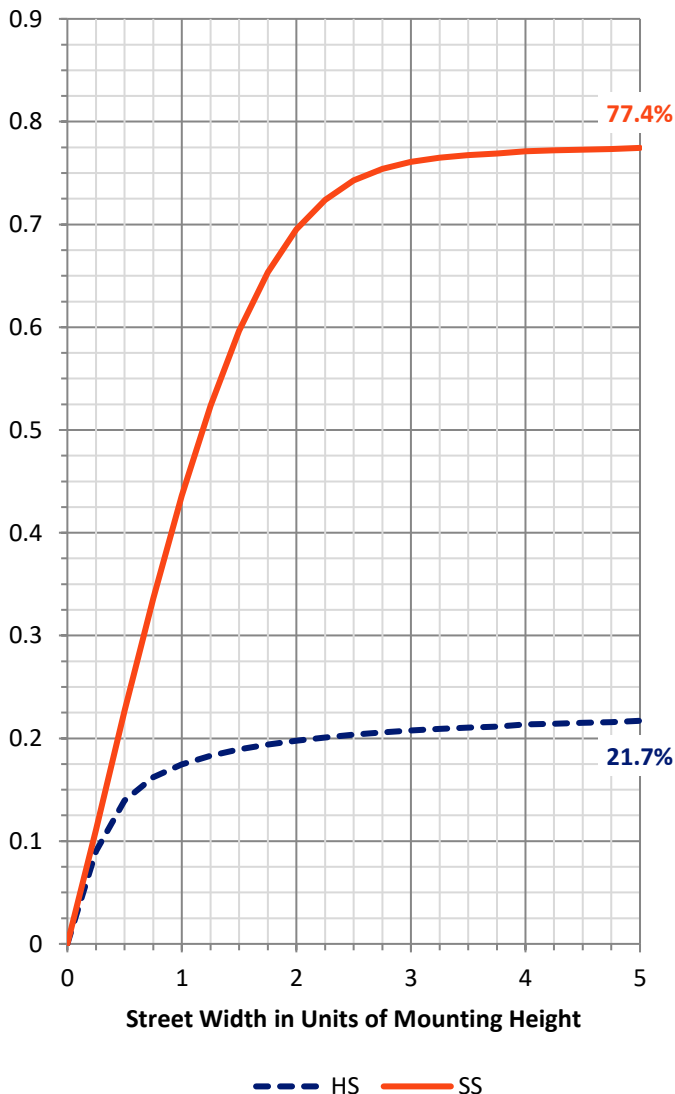
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10201.6	0.0	10201.6
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	35607.4	0.0	35607.4
	% Fixture	77.7	0.0	77.7
Total	Lumens	45809.0	0.0	45809.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	588.2	1.3
10°-20°	1891.4	4.1
20°-30°	3301.7	7.2
30°-40°	4742.7	10.4
40°-50°	6563.7	14.3
50°-60°	9616.7	21.0
60°-70°	11724.6	25.6
70°-80°	6482.1	14.2
80°-90°	897.8	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	45809.0	100.0
0°-180°	45809.0	100.0

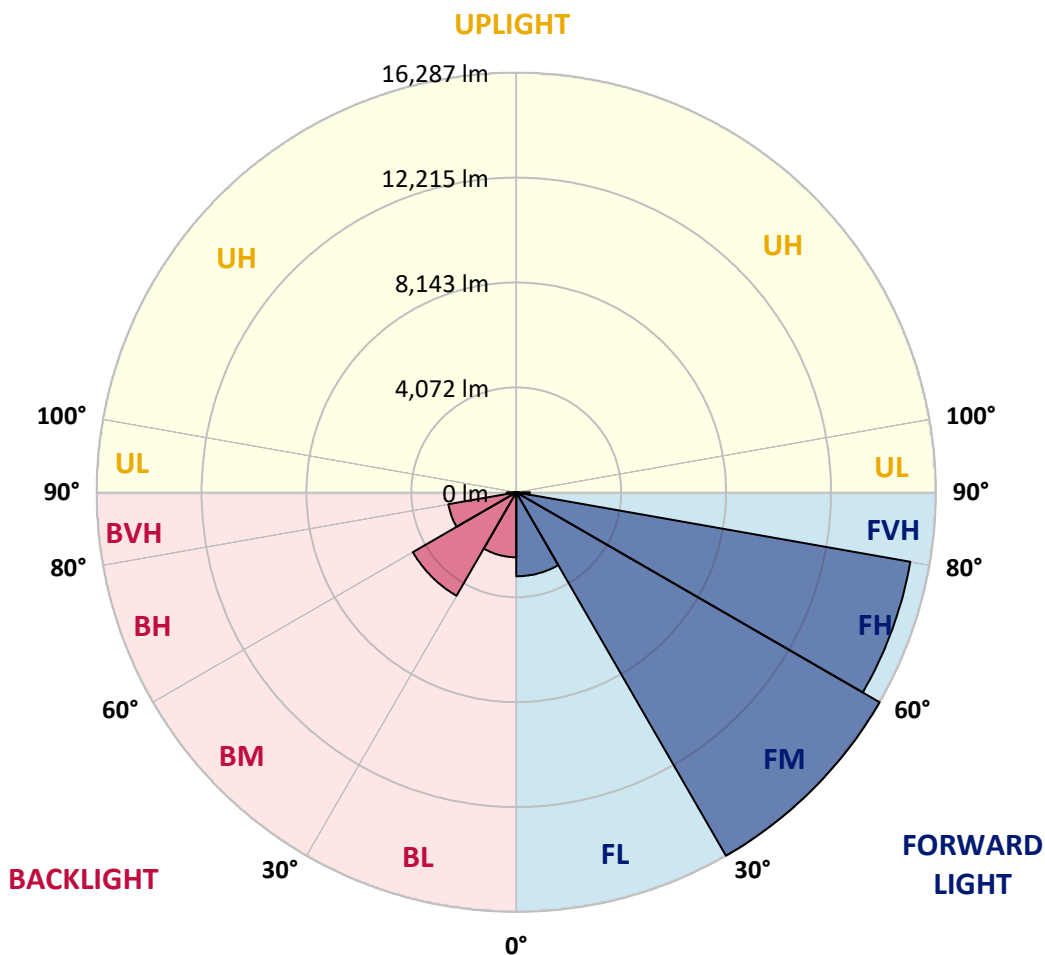


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3260.2	7.1			
FM (30°-60°)	16286.8	35.6			
FH (60°-80°)	15531.6	33.9			G5
FVH (80°-90°)	528.8	1.2			G4/750
BL (0°-30°)	2521.0	5.5	B4/5000		
BM (30°-60°)	4636.4	10.1	B3/5000		
BH (60°-80°)	2675.2	5.8	B4/5000		G4/5000
BVH (80°-90°)	369.0	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5988.8	5988.8	5988.8	5988.8	5988.8	5988.8	5988.8	5988.8	5988.8	5988.8	5988.8
2.5°	6026.7	6033.0	6028.3	6040.9	6026.7	6036.2	6028.3	6028.3	6023.6	6009.4	5993.6
5°	6121.4	6134.0	6126.1	6138.8	6121.4	6124.6	6110.3	6110.3	6096.1	6066.2	6034.6
7.5°	6269.7	6283.9	6277.6	6290.3	6266.6	6266.6	6247.6	6246.1	6217.7	6168.7	6132.4
10°	6446.5	6465.4	6459.1	6478.0	6459.1	6465.4	6446.5	6446.5	6408.6	6339.2	6293.4
12.5°	6703.7	6727.4	6710.0	6708.4	6700.6	6713.2	6697.4	6694.2	6659.5	6564.8	6501.7
15°	7047.7	7073.0	7036.7	7033.5	6989.3	6984.6	6984.6	6979.9	6957.8	6844.2	6740.0
17.5°	7443.8	7451.7	7420.2	7369.7	7312.9	7276.6	7271.8	7284.4	7284.4	7151.9	6986.2
20°	7832.0	7846.2	7821.0	7764.2	7691.6	7637.9	7600.1	7625.3	7623.7	7465.9	7230.8
22.5°	8255.0	8288.1	8250.2	8177.6	8092.4	8032.5	7966.2	7988.3	7989.9	7795.7	7470.7
25°	8802.6	8772.6	8748.9	8646.3	8524.8	8463.3	8401.7	8423.8	8417.5	8150.8	7718.4
27.5°	9287.0	9293.3	9261.8	9152.9	9012.5	8876.7	8873.6	8887.8	8864.1	8520.1	7952.0
30°	9850.4	9853.6	9809.4	9711.5	9558.5	9383.3	9342.3	9365.9	9315.4	8870.4	8198.2
32.5°	10410.6	10426.4	10377.5	10259.1	10136.0	9923.0	9840.9	9856.7	9730.5	9228.6	8452.2
35°	10901.4	10923.5	10907.7	10828.8	10694.7	10511.6	10413.8	10404.3	10248.1	9667.4	8788.4
37.5°	11401.7	11422.2	11404.8	11338.5	11284.9	11090.8	11038.7	11038.7	10767.3	10115.5	9216.0
40°	11916.1	11947.7	11927.2	11835.6	11789.9	11701.5	11576.8	11546.9	11253.3	10653.7	9913.5
42.5°	12394.3	12435.3	12517.4	12463.7	12370.6	12383.2	12132.3	12116.5	11901.9	11449.0	10789.4
45°	13072.9	13132.8	13271.7	13230.7	13211.7	13142.3	12844.0	12829.8	12747.8	12519.0	11876.7
47.5°	13813.0	13895.0	14146.0	14153.9	14357.4	14226.4	13820.9	13772.0	13790.9	13800.4	13203.8
50°	14494.7	14584.7	14996.6	15190.7	15670.4	15698.8	15050.2	15006.0	15080.2	15298.0	14750.4
52.5°	15039.2	15152.8	15667.2	16266.9	17089.1	17322.7	16563.6	16530.5	16585.7	16961.3	16498.9
55°	15438.4	15561.5	16121.7	17213.8	18526.7	18938.6	18305.8	18274.2	18309.0	18787.1	18400.5
57.5°	15531.5	15561.5	16374.2	17851.3	19740.3	20729.7	20437.8	20374.7	20204.2	20620.9	20499.3
60°	15094.4	15214.3	16165.9	18075.4	20679.2	22495.6	22666.1	22587.1	22109.0	22449.9	22352.0
62.5°	14207.5	14422.1	15387.9	17734.5	21046.9	23938.0	24851.7	24757.0	23933.3	24154.2	23683.9
65°	12758.8	12850.4	13865.1	16558.9	20579.8	24861.2	26800.6	26753.3	25716.5	25370.9	23930.1
67.5°	10167.6	10339.6	11201.3	14101.8	18668.8	24752.3	28307.7	28303.0	26881.1	25822.2	23057.4
69°	8032.5	8210.8	9031.4	11616.3	16519.4	23756.5	28560.2	28615.4	27209.4	25547.6	21810.7
70°	6403.9	6610.6	7174.0	9784.1	14611.5	22443.5	28350.3	28449.7	27146.2	25094.7	20660.3
72.5°	2725.4	2892.6	3293.5	5043.6	8905.1	16759.3	25921.6	26297.2	25683.4	22967.5	17074.9
75°	1189.9	1242.0	1423.4	2056.2	3953.1	9121.3	20306.8	21001.2	21960.6	19413.6	12719.4
77.5°	871.1	893.2	992.6	1207.2	1773.8	3445.0	13058.7	13462.7	15837.7	14127.0	7802.1
80°	673.8	689.6	766.9	886.9	1158.3	1393.5	5955.7	6302.9	8905.1	7256.0	3249.3
82.5°	536.5	547.6	601.3	653.3	800.1	844.3	1977.3	2193.5	3287.2	2004.2	860.1
85°	498.7	511.3	530.2	476.6	512.9	495.5	855.3	894.8	992.6	787.5	359.8
87.5°	225.7	266.7	525.5	370.9	273.0	217.8	350.3	366.1	411.9	413.5	159.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5988.8	5988.8	5988.8	5988.8	5988.8	5988.8	5988.8	5988.8	5988.8	5988.8	5988.8
2.5°	6003.0	5998.3	6006.2	5987.3	6010.9	6009.4	6001.5	6004.6	6020.4	6018.8	6020.4
5°	6039.3	6036.2	6045.6	6031.4	6059.9	6069.3	6070.9	6085.1	6102.5	6107.2	6107.2
7.5°	6130.9	6130.9	6135.6	6116.7	6135.6	6134.0	6126.1	6140.3	6157.7	6159.3	6157.7
10°	6288.7	6290.3	6282.4	6233.4	6217.7	6175.1	6135.6	6137.2	6159.3	6176.6	6181.4
12.5°	6487.5	6481.2	6446.5	6356.5	6290.3	6203.5	6162.4	6160.8	6182.9	6197.1	6201.9
15°	6714.8	6697.4	6607.4	6460.7	6343.9	6258.7	6192.4	6176.6	6164.0	6148.2	6149.8
17.5°	6929.4	6889.9	6740.0	6536.4	6413.3	6299.7	6171.9	6069.3	5998.3	5957.3	5944.7
20°	7147.2	7069.8	6853.6	6607.4	6451.2	6244.5	5998.3	5790.0	5660.6	5600.6	5589.6
22.5°	7346.0	7221.3	6959.4	6681.6	6421.2	6058.3	5671.6	5368.6	5188.7	5108.3	5114.6
25°	7540.1	7366.5	7069.8	6733.7	6269.7	5730.0	5217.2	4844.7	4636.4	4546.5	4543.3
27.5°	7710.5	7513.3	7189.8	6691.1	5987.3	5262.9	4679.0	4316.1	4142.5	4065.2	4052.5
30°	7906.2	7697.9	7349.1	6528.5	5573.8	4723.2	4153.5	3897.9	3774.8	3697.5	3683.3
32.5°	8144.5	7948.8	7480.1	6233.4	5045.1	4159.8	3743.2	3564.9	3452.9	3366.1	3350.3
35°	8491.7	8280.2	7513.3	5810.5	4464.4	3714.8	3441.8	3258.7	3107.3	2995.2	2984.2
37.5°	8927.2	8695.3	7437.5	5262.9	3901.0	3426.0	3190.9	2965.2	2768.0	2610.2	2584.9
40°	9555.3	9205.0	7227.6	4631.7	3486.0	3203.5	2946.3	2689.1	2444.5	2259.8	2223.5
42.5°	10309.6	9803.1	6905.7	4003.6	3181.4	2977.8	2703.3	2384.5	2150.9	2020.0	2001.0
45°	11269.1	10424.8	6459.1	3454.4	2881.6	2752.2	2441.3	2147.8	2002.6	1906.3	1890.5
47.5°	12364.3	11122.4	5990.4	3007.8	2627.5	2540.7	2231.4	2042.0	1926.8	1851.1	1836.9
50°	13710.4	11909.8	5493.3	2641.7	2371.9	2286.6	2132.0	1983.7	1892.1	1833.7	1819.5
52.5°	15228.5	12798.3	5135.1	2352.9	2160.4	2098.9	2079.9	1952.1	1877.9	1833.7	1819.5
55°	16863.4	13702.5	4748.5	2109.9	1977.3	1994.7	2045.2	1955.2	1904.8	1851.1	1830.6
57.5°	18499.9	14636.7	4317.6	1904.8	1832.2	1917.4	2021.5	1961.6	1919.0	1866.9	1847.9
60°	19793.9	15228.5	3650.1	1732.7	1717.0	1832.2	1964.7	1914.2	1859.0	1860.6	1857.4
62.5°	20398.3	15197.0	2913.1	1579.7	1601.8	1717.0	1873.2	1840.0	1794.3	1855.8	1860.6
65°	20059.1	14439.5	2267.7	1440.8	1478.7	1597.0	1778.5	1803.8	1819.5	1937.9	1953.7
67.5°	18635.6	12965.6	1756.4	1319.3	1366.6	1515.0	1788.0	1964.7	1985.2	2109.9	2108.3
69°	17163.3	11583.2	1526.0	1256.2	1311.4	1535.5	1911.1	2067.3	1990.0	2122.5	2103.6
70°	15929.2	10489.5	1402.9	1213.5	1286.1	1571.8	1993.1	2065.7	1966.3	2079.9	2048.4
72.5°	12268.0	7546.4	1189.9	1134.6	1200.9	1503.9	2016.8	2020.0	1911.1	1933.2	1879.5
75°	8414.4	4769.0	1038.4	1027.3	1071.5	1355.6	1941.0	1930.0	1767.5	1735.9	1691.7
77.5°	4639.6	2422.4	882.2	924.8	954.7	1200.9	1764.3	1748.5	1614.4	1548.1	1532.3
80°	1789.5	1060.5	744.9	822.2	841.1	1040.0	1546.5	1532.3	1420.3	1335.1	1311.4
82.5°	675.4	555.5	615.5	711.7	705.4	858.5	1309.8	1301.9	1193.0	1068.4	1030.5
85°	312.5	333.0	487.6	587.0	541.3	636.0	1047.8	1062.1	929.5	781.2	781.2
87.5°	132.6	186.2	345.6	443.4	364.5	429.2	768.5	733.8	673.8	467.1	438.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)